FINAL SIGNAL WARRANT ANALYSIS

Hodge Road and Mingo Bluff Boulevard Knightdale, North Carolina



Prepared For: **Town of Knightdale**950 Steeple Square Court

Knightdale, North Carolina 27545



Submitted: December 21, 2007 WSA # 102059

FINAL

TRAFFIC SIGNAL WARRANTS ANALYSIS

For

Hodge Road and Mingo Bluff Boulevard

Knightdale, North Carolina

Prepared For:

Town of Knightdale 950 Steeple Square Court Knightdale, North Carolina 27545

Prepared By:



421 Fayetteville Street, Suite 1303 Raleigh, NC 27601 (919) 755-0583

December 21, 2007

(WSA Project No. 102059)



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Introduction

A traffic signal warrants analysis has been conducted for the intersection of Hodge Road and Mingo Bluff Boulevard in Knightdale, North Carolina. Data collected at the site has been compared to the guidelines set forth in the *Manual on Uniform Traffic Control Devices* (*MUTCD*)¹. The *Manual* describes eight warrants to be considered as justifying criteria necessary to be met before a traffic signal installation should be approved. The eight warrants are listed as follows:

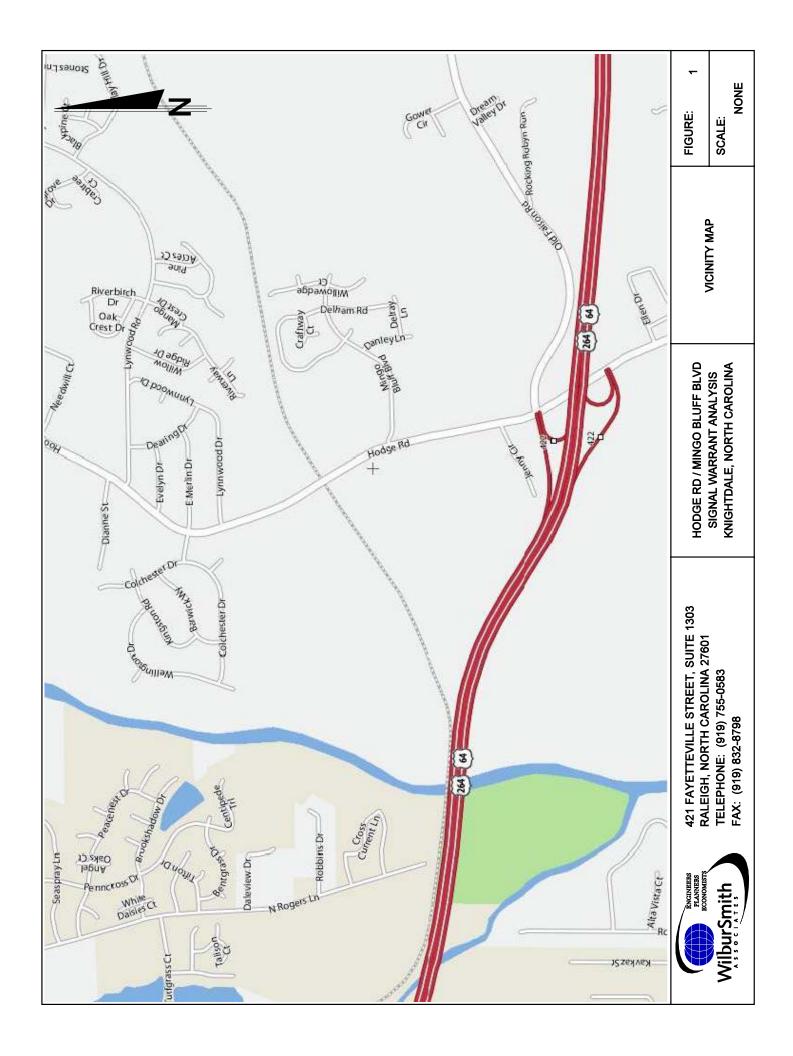
MU	Table 1 TCD Signal Warrants
Warrant 1 -	Eight-Hour Vehicular Volume
Warrant 2 -	Four-Hour Vehicular Volume
Warrant 3 -	Peak Hour
Warrant 4 -	Pedestrian Volume
Warrant 5 -	School Crossings
Warrant 6 -	Coordinated Signal System
Warrant 7 -	Crash Experience
Warrant 8 -	Roadway Network

The installation of a traffic signal must improve the overall safety and/or operation of the intersection. Satisfying one or more warrants alone does not in itself provide concrete justification to consider a signal. A thorough analysis that considers crash history, field conditions such as sight distances and speed limits, and good engineering judgment must all be considered before the installation of a traffic signal is proposed. As a part of the analysis performed, WSA examined crash data for the corridor from 2004-2007 to identify any high crash locations that could be easily remedied.

Background

The intersection of Hodge Road and Mingo Bluff Boulevard in Knightdale lies just north of the Hodge Road / US-64 / US-264 Bypass interchange (See Figure 1). The intersection is currently unsignalized. Hodge Road Elementary school is located on the east side of Hodge Road and a currently undeveloped, wooded area is located on the west side. Significant residential and commercial developments are planned for the areas adjacent to this intersection. These are projected to increase traffic volumes along the area roadways, including Hodge Road.





Existing Conditions

<u>Hodge Road</u> is a primary north-south thoroughfare in western Knightdale. In the vicinity of the project location, the roadway provides a 2-lane facility. The posted speed limit along Hodge Road is 45 mph. The land use that generally serves this area is residential.



Hodge Road looking north

<u>Mingo Bluff Boulevard</u> is a 2-lane roadway that provides access to the Hodge Road Elementary School and several residential developments. There is no posted speed limit along Mingo Bluff Boulevard.



Mingo Bluff Boulevard looking west

Methodology

In order to perform a traffic signal warrants analysis for the Hodge Road / Mingo Bluff Boulevard intersection, traffic data was collected and then compared to the MUTCD¹ warrants. Much of the analysis is based upon 16-hour turning movement and pedestrian traffic volumes counted by Wilbur Smith Associates on October 31, 2007 at the study intersection. Figure 2 illustrates the morning and afternoon peak hour traffic volumes as well as the total 16-hour traffic volumes. These counts are also included in the Appendix.

Most warrants described in the *MUTCD* consider the number of lanes on each approach to the intersection. The most restrictive of the thresholds in these warrants are based on a 2-lane approach intersecting another 2-lane approach. Due to the presence of left turn lanes on both Hodge Road and Mingo Bluff Boulevard, both streets were analyzed as having 2-lane approaches.

Crash data for the Hodge Road corridor between Poole Road and US64 Business was obtained from NCDOT for the period 2004-2007. A crash diagram was prepared to determine any areas of unusual crash history and is included as Figure 4. The raw crash data is included in the Appendix.

Results

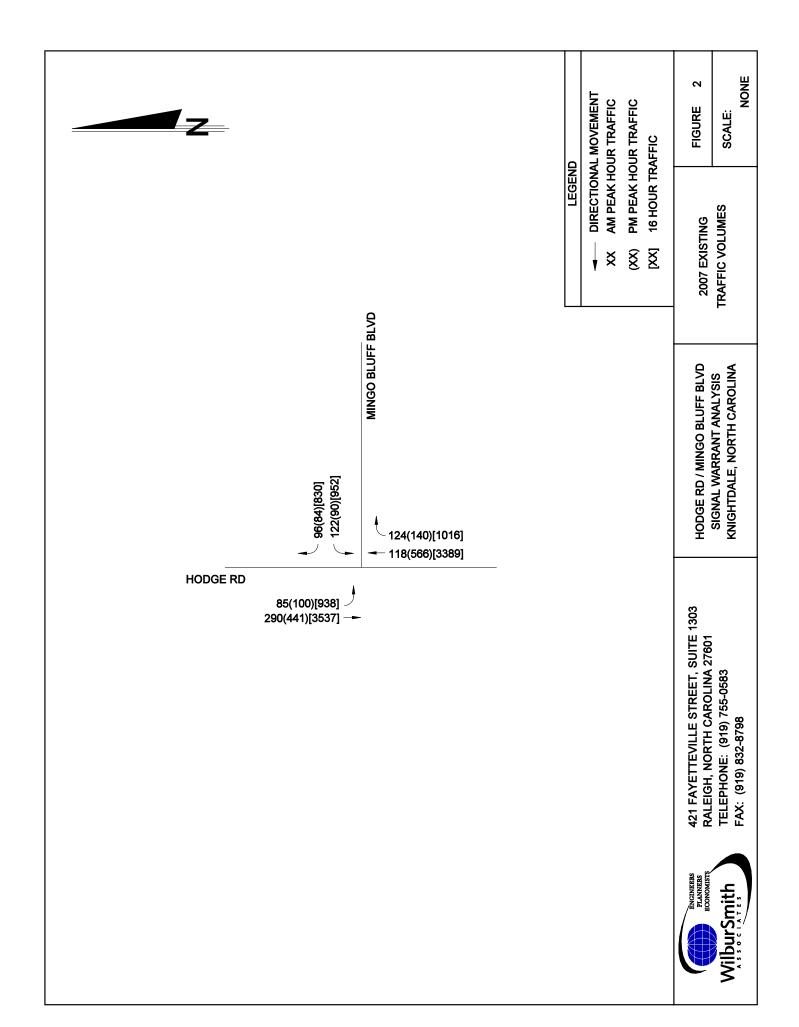
Warrant 1 - Not Met

Warrant 1 (Eight Hour Vehicular Volume) is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic signal or where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street. Warrant 1 has two conditions but is intended to be treated as a single warrant. If either Condition A or B is satisfied, then the criteria for Warrant 1 is satisfied.

To meet the requirements for Warrant 1A (Minimum Vehicular Volume), the total number of vehicles per hour on the major street and the higher-volume minor street approaches should meet the required minimum volumes. At least 8 hours are needed to satisfy this warrant. At the Hodge Road / Mingo Bluff Boulevard intersection only 6 hours met this requirement; therefore Warrant 1A is not met.

To meet the requirements for Warrant 1B (Interruption of Continuous Traffic), the total number of vehicles per hour on the major street and the higher-volume minor street approaches should meet the required minimum volumes. At least 8 hours are needed to satisfy this warrant. Only 6 hours reached this requirement, and therefore Warrant 1B is not met.





Warrant 2 - Met

Warrant 2 (Four Hour Vehicular Volume) is intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic signal. To meet the requirements for Warrant 2, the total number of vehicles per hour on the major street and the higher-volume minor street approaches should meet the required minimum volumes. At least 4 hours are needed to satisfy this warrant. At the Hodge Road / Mingo Bluff Boulevard intersection, 4 hours met this requirement; therefore Warrant 2 is met.

Warrant 3 - Met

Warrant 3 (Peak Hour Vehicular Volume) is intended to be applied where traffic conditions are such that for a minimum of 1 hour of an average day, the minor street traffic suffers undue delay when entering the major street. This warrant is usually applied only in the vicinity of facilities that attract or discharge large numbers of vehicles over a short time. This warrant is applicable due to the proximity of the Hodge Road Elementary School. Warrant 3 has two conditions but is intended to be treated as a single warrant. If either Condition A or B is satisfied, then the criteria for Warrant 3 is satisfied.

To meet Warrant 3A, all of the following three conditions must be met for the same hour:

- 1. The total stopped time delay experienced by the traffic on the minor-street approach exceeds 5 vehicle-hours for a two-lane approach. The subject intersection does not meet this condition.
- 2. The volume on the same minor street approach equals or exceeds 150 vehicles per hour. The subject intersection meets this condition.
- 3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour. The subject intersection meets this condition.

To meet Warrant 3B the total number of vehicles per hour on the major street and the higher-volume minor street approaches should meet the required minimum volumes. At least 1 hour is needed to satisfy this warrant. At the Hodge Road / Mingo Bluff Boulevard intersection, 3 hours met this requirement; therefore Warrant 3B is met.

Warrant 4 - Not Met

Warrant 4 (Pedestrian Volume) is intended for application where the traffic volume on a major street is so heavy that pedestrians experience excessive delay in crossing the major street. To meet Signal Warrant 4, the pedestrian volume crossing the major street at an intersection or midblock location during an average day should be 100 or more for each of any 4 hours or 190 or more during any 1 hour, and there should be fewer than 60 gaps per hour in the traffic stream of adequate length to allow pedestrians to cross during the same period when the pedestrian volume criterion is satisfied. Despite the fact that Hodge Road Elementary School is



located at this intersection, no pedestrians were observed crossing Hodge Road or Mingo Bluff Boulevard, therefore this warrant is not met.

Warrant 5 - Not Met

Warrant 5 (School Crossing) is intended for application where the fact that school children cross the major street is the principal reason to install a traffic signal. To meet Signal Warrant 5 there must be a minimum of 20 students during the highest crossing hour across the major street. As with Warrant 4, no pedestrians were observed crossing at or near the intersection, therefore this warrant is not met

Warrant 6 - Not Met

Warrant 6 (Coordinated Signal System) is applicable in situations where a coordinated signal system necessitates the installation of a traffic control signal to maintain proper platooning of vehicles. As no coordinated signal system exists along this portion of Hodge Road, Warrant 6 is not met.

Warrant 7 - Not Met

Warrant 7 (Crash Experience) is intended for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic control signal. For Signal Warrant 7 the MUTCD¹ states that to meet the warrant there must be a history of crashes at the subject intersection amounting to at least 5 crashes within the past year resulting in personal injury or property damage above the reporting thresholds. These crashes must also be of such a type that is correctable by the installation of a traffic signal. An adequate trial of alternatives must also have been attempted, along with increased enforcement. In addition to meeting these criteria, a certain amount of vehicular and pedestrian volumes must be present for 8 hours of the day. One crash (collision with an animal) was recorded along this section of roadway within a 3-year period; therefore the minimum criterion for Warrant 7 is not met.

Future Conditions

Based on information received from the Town of Knightdale Planning Department, there are several approved developments that are expected to add traffic to Hodge Road. These developments include:

- Food Lion Development at the intersection of Hodge Road and Poole Road
- ➤ Watson Tract at the intersection of Hodge Road and US 64 Business
- Langston Ridge Residential Development on the west side of Hodge Road south of Whitfield Street
- ➤ Panther Rock Subdivision on the west side of Hodge Road south of the US 64 Bypass

In addition to traffic from these specific developments, the TIA's performed in the area assumed that traffic along Hodge Road would grow approximately 3% per year. This is a reasonable



assumption based on the growth that is occurring in the area due to the opening of the US 64 Bypass.

In 2005, NCDOT counted 6,400 vehicles per day on Hodge Road just south of Mingo Bluff Boulevard. As shown in Figure 3, based on a 3% compounded growth, the 2025 Annual Average Daily Traffic (AADT) is estimated to be approximately 11,600 vehicles per day.

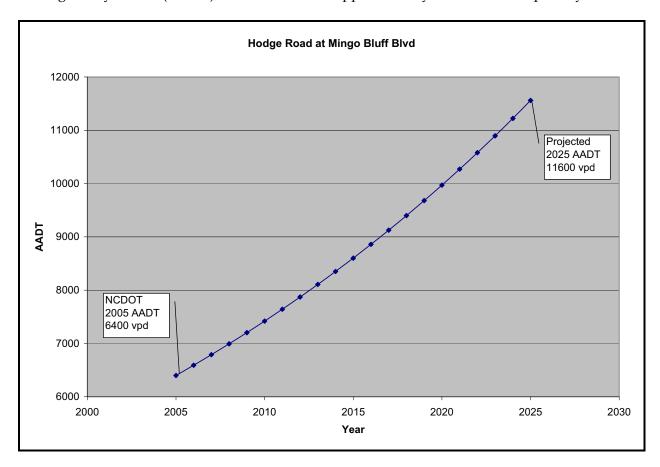


Figure 3: Estimated AADT on Hodge Road near Mingo Bluff Boulevard

Based on the expected increases in traffic volumes, it is reasonable to expect that Signal Warrants 2 (Four Hour Vehicular Volume) and 3 (Peak Hour Vehicular Volume) will continue to be met in the future as volumes grow along Hodge Road. In addition, Warrant 1 (Eight Hour Vehicular Volume) may be met as only 2 more hours are needed to satisfy conditions 1A or 1B.

As future developments are built along Hodge Road, sidewalks should be included with these developments. The provision of these sidewalks will likely encourage parents and children to walk to school rather than drive.



Crash Analysis

To determine if there are any major crash problems on the Hodge Road corridor from Poole Road to US 64 Business, WSA requested crash data from NCDOT for the past three years. Figure 4 provides a crash diagram of the crashes that were reported during this time period.

As expected, due to the high traffic volumes, the intersections of Hodge Road and Poole Road and Hodge Road and US 64 Business have the highest frequency of crashes. The improvements currently under construction at the Hodge Road / Poole Road intersection may help improve the safety of this intersection. Similarly, the new configuration of the Hodge Road / US 64 Business intersection and the reduction of traffic on US 64 Business due to the opening of the US 64 Bypass may eliminate some of the crashes experienced at this intersection.

The intersection of Hodge Road and Merlin Drive experienced 8 collisions over the past three years. An inspection of this intersection indicates that motorists may not have adequate sight distance, particularly entering or crossing Hodge Road in the westbound direction. WSA recommends that the Town ensure that the right –of-way remains clear in this area, particularly in the southeast quadrant of the intersection.





Looking south along Hodge Road at Merlin Drive

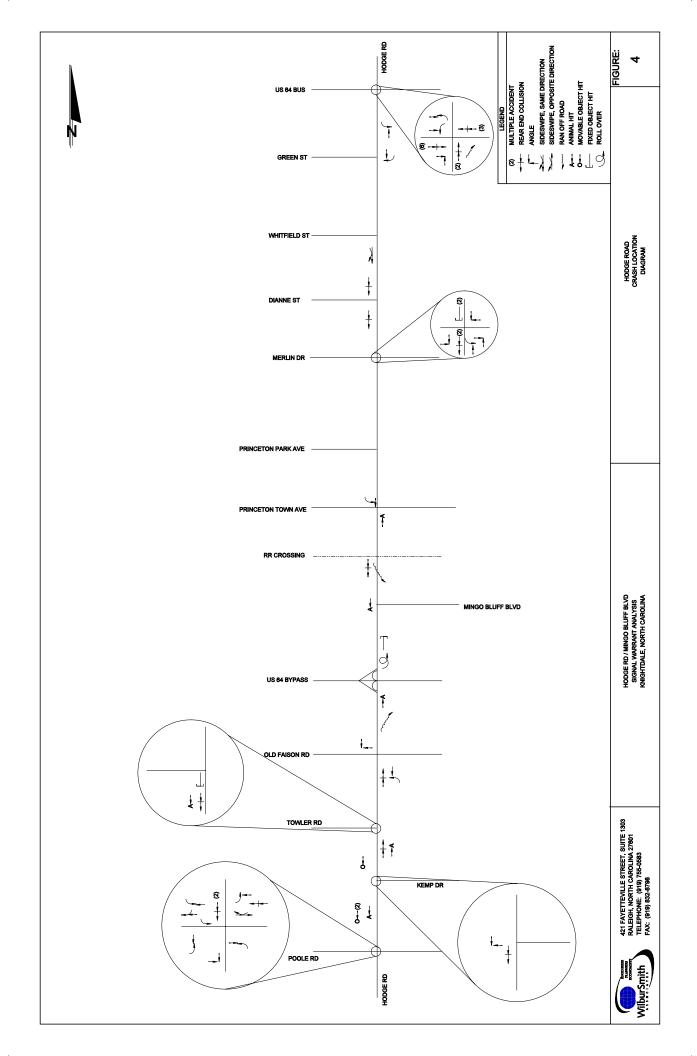
Looking north along Hodge Road at Merlin Drive

No other intersections along the corridor appeared to have a major crash problem within the past three years.

Recommendations

The satisfaction of a warrant is not in itself justification for a signal. The installation of a signal must improve safety and/or alleviate excessive delay under average daily conditions. Overall, this analysis shows that the Hodge Road / Mingo Bluff Boulevard intersection currently meets the criteria set forth in the *MUTCD*¹ for both the Four Hour Vehicular Volume and Peak Hour Vehicular Volume warrants. Currently, all other Warrants are not met. However, upon





completion of approved and potential developments in the area, as well as general growth in Knightdale, it is reasonable to expect that the traffic along Hodge Road will further increase, possibly meeting other warrants in the future. Based on current traffic volumes meeting two signal warrants and the expected growth in traffic along Hodge Road, WSA recommends that a traffic signal be considered at this location at this time. The addition of the new Knightdale Fire Department on Mingo Bluff Boulevard may necessitate consideration of addition of emergency vehicle preemption when this traffic signal is installed. Additionally pedestrian signals with push-button activation should be included for use by pedestrians as the east and west sides of Hodge Road develop.

While not currently necessary, with the installation of a signal, additional improvements would be realized through the construction of a northbound right turn lane. A northbound right turn lane would allow for northbound right turning vehicles to freely flow when the westbound traffic has a green light.

To encourage pedestrian activity in the area, WSA recommends that the Town require developers to construct sidewalks along Hodge Road in front of their developments, as was required for the Princeton Manor subdivision.

Finally, WSA recommends that the Town ensure that the right-of-way remains clear at this intersection, as well as the Hodge Road at Merlin Drive intersection, particularly in the southeast quadrants of both intersections.

References

¹Manual on Uniform Traffic Control Devices (MUTCD), USDOT/FHWA, 2003.



Appendix A

TRAFFIC DATA

421 Fayetteville Street, Suite 1303 Raleigh, NC 27601

File Name : HodgeRd_MingoBluffBlvd Site Code : 00000002

Start Date : 10/31/2007

Page No : 1

Groups Printed- Cars and Trucks

		2000 00	HIDS TO					rinted- Ca	ars and		B						
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06:45 AM	0	40	5	45	10	0	24	34	8	28	0	36	0	0	0	0	1
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07:15 AM	0	81	12	93	15	0	23	38	20	24	0	44	0	0	0	0	1
07:30 AM	0	84	16	100	16	0	21	37	41	29	0	70	0	0	0	0	2
07:45 AM	0	65	20	85	27	0	41	68	34	32	0	66	0	0	0	0	2
Total	0	304	58	362	71	0	109	180	103	108	0	211	0	0	0	0	7
08:00 AM	0	60	37	97	38	0	37	75	29	33	0	62	0	0	0	0	2
08:15 AM	0	47	11	58	20	1	18	39	22	52	0	74	0	0	0	0	1
08:30 AM	0	51	3	54	8	0	19	27	7	28	0	35	0	0	0	0	1
08:45 AM	0	43	6	49	8	0	8	16	6	49	0	55	0	0	0	0	13
Total	0	201	57	258	74	1	82	157	64	162	0	226	0	0	0	0	6
09:00 AM	0	45	10	55	4	0	9	13	7	38	0	45	0	0	0	0	1
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09:30 AM	o	29	1	30	9	0	9	18	10	20	ō	30	ő	o	o	Ö	
09:45 AM	0	29	1	30	5	0	4	9	10	22	0	32	0	ő	o	0	
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11:30 AM	0	31	5	36	8	0	7	15	2	29	0	31	0	0	0	0	
11:45 AM	0	28	9	37	6	0	6	12	2	34	0	36	0	0	0	0	
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12:15 PM	0	34	3	37	8	0	5	13	3	37	0	40	0	0	0	0	
12:30 PM	0	27	12	39	1	0	5	6	5	31	0	36	0	0	0	0	
12:45 PM	0	43	7	50	8	0	8	16	8	17	0	25	0	0	0	0	
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01:15 PM	0	36	9	45	6	o	7	13	2	32	0	34	0	o	0	0	
01:30 PM	o	28	7	35	3	0	8		5	26	0	31	0	ő	0	0	
01:30 PM	0	63	14	77	14	0		30	9	49	0	58	0	ő	0	0	11
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02:15 PM	0	71	26	97	17	0	18	35	19	66	0	85	0	0	0	0	2
02:30 PM	0	69	36	105	21	0	19	40	31	75	0	106	0	0	0	0	2
02:45 PM	0	72	34	106	47	0	45	92	45	84	0	129	0	0	0	0	3
Total	0	276	112	388	101	0	101	202	108	282	0	390	0	0	0	0	9
03:00 PM	0	82	27	109	42	0	49	91	40	78	0	118	0	0	0	0	3
03:15 PM	0	73	28	101	21	0	35	56	26	80	0	106	0	0	0	0	2
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03:45 PM	0	70	19	89	23	0	32	55	23	87	0	110	0	0	0	0	2
	0	302	105	407	111	0	159	270	110	330	0	440	0	0	0	0	11

421 Fayetteville Street, Suite 1303 Raleigh, NC 27601

File Name: HodgeRd_MingoBluffBlvd

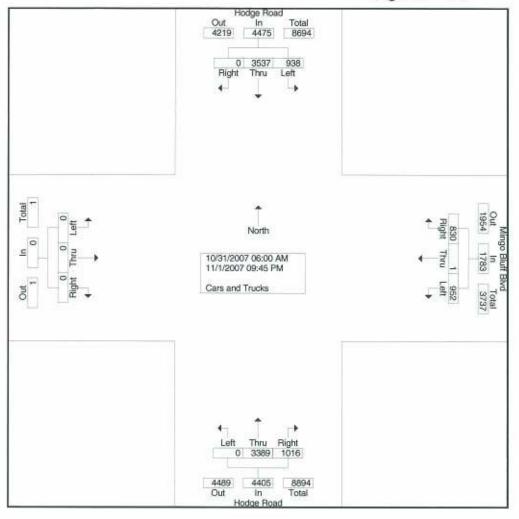
Site Code : 00000002 Start Date : 10/31/2007

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Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Tota
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04:15 PM	0	102	26	128	20	0	15	35	22	106	0	128	0	0	0	0	29
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07:00 PM	0	75	17	92	11	0	19	30	17	77	0	94	0	0	0	0	21
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Total	0	158	39	197	19	0	17	36	67	150	0	217	0	0	0	0	45
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421 Fayetteville Street, Suite 1303 Raleigh, NC 27601

File Name: HodgeRd_MingoBluffBlvd

Site Code : 00000002 Start Date : 10/31/2007

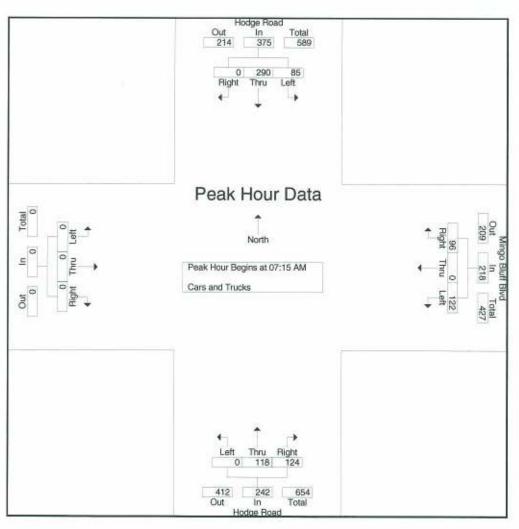


421 Fayetteville Street, Suite 1303 Raleigh, NC 27601

File Name: HodgeRd_MingoBluffBlvd

Site Code : 00000002 Start Date : 10/31/2007

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Peak Hour for E	ntire Inte	ersection	Begins	s at 07:15	AM												
07:15 AM	0	81	12	93	15	0	23	38	20	24	0	44	0	0	0	0	175
07:30 AM	0	84	16	100	16	0	21	37	41	29	0	70	0	0	0	Õ	207
07:45 AM	0	65	20	85	27	0	41	68	34	32	0	66	0	0	0	0	219
08:00 AM	0	60	37	97	38	0	37	75	29	33	0	62	0	0	0	0	234
Total Volume	0	290	85	375	96	0	122	218	124	118	0	242	0	0	0	0	835
% App. Total	0	77.3	22.7		44	0	56		51.2	48.8	0		0	0	0	851	0.50
PHF	.000	.863	.574	.938	.632	.000	.744	.727	.756	.894	.000	.864	.000	.000	.000	.000	.892

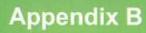


421 Fayetteville Street, Suite 1303 Raleigh, NC 27601

File Name : HodgeRd_MingoBluffBlvd Site Code : 00000002

Site Code : 00000002 Start Date : 10/31/2007

		_	Road North		1	Mingo E Fron	Bluff Bl	vd		-	e Road South			From	West		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Anal	ysis From	m 04:00				of 1	100000			- Williams	,	ikiteletiint-w-ne	20000000				
Peak Hour for E	ntire Inte	ersection	Begin	s at 04:45	PM												
04:45 PM	0	104	26	130	18	0	19	37	27	131	0	158	0	0	0	0	325
05:00 PM	0	111	25	136	19	0	19	38	31	146	0	177	0	0	0	0	351
05:15 PM	0	119	22	141	18	0	24	42	43	146	0	189	0	0	0	0	372
05:30 PM	0	107	27	134	29	0	28	57	39	143	0	182	0	0	0	0	373
Total Volume	0	441	100	541	84	0	90	174	140	566	0	706	0	0	0	0	1421
% App. Total	0	81.5	18.5		48.3	0	51.7		19.8	80.2	0		0	0	0		
PHF	.000	.926	.926	.959	.724	.000	.804	.763	.814	.969	.000	.934	.000	.000	.000	.000	.952



CRASH DATA

Study Criteria Summary

County: WAKE

City: All and Rural

Date: 7/1/2004

to 6/30/2007

Study: 0LV200711091

Location: SR 2516 (Hodge Rd) from US 64 Bus to SR 1007 (Poole Rd)

Report Details

Acc									1	Total		In	juri	es		C	ondi	tion	R	oad	Trfc	Ctl
No	Crash ID	Milepost	Da	ate	A	ccider	nt Typ	e	D	amage	П	F	A	В	С	R	L	W	Ch	Ci	Dv	Op
1	101262375	0.000	0000 The 199	/2004 :11	LEFT ROADW		SAM	3	ş	5700		3	0	0	0	1	3	2	1	0	3	1
Unit	1:4	Alch1/D	rgs:	0	Speed:	50	MPH	Dir:	Ε		Veh	Mnv	r/P	ed	Actn	Č.	4	o	bj i	Strk:		
Unit	2 : 1 	Alchl/D	rgs:	0	Speed:	15	MPH	Dir:	W		Veh	Mnv	r/P	ed	Actn	:	8	0	bj :	Strk:		
2	101262374	0.000		/2004 :16	REAR STOP	END,	SLOW	OR	s	2000)	0	0	2	I	5	1	1	0	3	
Unit	1:2	Alch1/D	rgs:	0	Speed:	45	MPH	Dir:	Ε		Veh	Mnv	r/P	ed	Actn	1	11	0	bj :	Strk:		
Unit	2:1	Alchl/D:	rgs:	0	Speed:	45	MPH	Dir:	E		Veh	Mnv	r/P	ed	Actn	-	1	0	bj :	Strk:		
3	101291851	0.000		/2004 :50	LEFT DIFFE	CONTRACTOR INC.			s	7000	(3))	0	1	1	1	5	1	1	0	3	1
Unit	1:1	Alch1/D	- T		Speed:	50	MPH	Dir:	E		Veh	Mnv	r/P	ed	Actn	÷	4	0	bj :	Strk:		
Unit	2 : 2 	Alch1/D	rgs:	o 	Speed:	20	MPH	Dir:	N		Veh	Mnv	r/P	ed	Actn	-	8	0	bј:	Strk:		
4	101294740	0,000		/2004 :16	ANGLE				5	6500	3)	0	0	2	2	1	2	1	0	3	1
Unit	1 : 4	Alchl/D	rgs:	D.	Speed:	4.5	MPH	Dir:	E		Veh	Mnv	r/P	ed	Actn		4	0	bj :	Strk:		
Unit	2:1 	Alchl/D	rgs:	0	Speed:	10	MPH	Dir:	E		Veh	Mnv	r/P	ed	Actn	-	8	0	bj :	Strk:		
5	101417503	0.000		/2005 :41	REAR STOP	END,	SLOW	OR	s	13000)	0	0	1	1	1	1	7	0	3	1
Unit	1:1	Alchl/D	rgs:	0	Speed:	80	MPH	Dir:	W		Veh	Mnv	r/P	ed	Actn	3	1	0	bj :	Strk:		
Unit	2:1	Alch1/D	rgs:	0	Speed:	25	MPH	Dir:	W		Veh	Mnv	r/P	ed	Actn	:	11	0	bj :	Strk:		
6	101335653	0.000		/2005 :50	REAR STOP	END,	SLOW	OR	Ş	1000	1	0	0	0	1	1	1	1	1	0	3	1
Unit	1:1	Alch1/D	rgs:	0	Speed:	45	MPH	Dir:	W		Veh	Mnv	r/P	ed	Actn	ï	4	0	bj :	Strk		
Unit	2:1	Alchl/D	rgs:	0	Speed:	45	MPH	Dir:	W		Veh	Mnv	r/P	ed	Actn	a 	1		bj :	Strk:		
7	101468068	0.000		/2005 :02	REAR STOP	END,	SLOW	OR	s	6000)	0	0	0	1	1	1		0		
Unit	1 : 1	Alchl/D	rgs:	D	Speed:	0	MPH	Dir:	E		Veh	Mnv	r/P	ed	Actn	:	11	0	bj :	Strk		
	2:1															:	4	0	bj .	Strk:		<u> </u>
	101541281		11/18	/2005												1	5	1	1	0	3	1
Unit	1 : 4	Alch1/D	rgs:	1	Speed:	50	MPH	Dir:	E		Veh	Mnv	r/P	ed	Actn	G.	4	0	bj :	Strk	9	
Unit	2:1	Alch1/D	rgs:	0	Speed:	35	MPH	Dir:	Ē		Veh	Mnv	r/P	ed	Actn	1	1	0	bj :	Strk		

11/15/2007

No	Acc		_			_			T			iyolo i	-	Total	T	In	juries	5	C	ond	ition	T	Road	Tri	c Ctl
9 101684350	100000000000000000000000000000000000000	C	ra	sh ID	Mile	nost		Date	Ι Δ	ccide	nt Tvr	ne	100	STORES IN	t		the real Persons		_	_	-	_		_	_
Unit 1:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: E Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 0 MPH Dir: E Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 3:1 Alchl/Drgs: 0 Speed: 50 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: 10 101833733 0.000 09/16/2006 REAR END, SLOW OR 8 6000 0 0 0 0 1 1 1 1 0 0 15:50 STOP Unit 1:2 Alchl/Drgs: 1 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 1 Obj Strk: 11 101862927 0.000 12/10/2006 REAR END, SLOW OR 8 450 0 0 0 2 1 1 1 3 11 15:51 STOP Unit 1:1 Alchl/Drgs: 0 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:4 Alchl/Drgs: 0 Speed: 45 MPH DIr: E Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 0 MPH DIR: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 0 MPH DIR: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 3:4 Alchl/Drgs: 0 Speed: 0 MPH DIR: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4:1 Alchl/Drgs: 1 Speed: 30 MPH DIR: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4:1 Alchl/Drgs: 0 Speed: 0 MPH DIR: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4:1 Alchl/Drgs: 0 Speed: 30 MPH DIR: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 5 MPH DIR: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 5 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:4 Alchl/Drgs: 0 Speed: 0 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 5 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:4 Alchl/Drgs: 0 Speed: 5 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:5 Alchl/Drgs: 0 Speed: 45 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:5 Alchl/Drgs: 0 Speed: 45 MPH DIR: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:5 Alchl/Drgs: 0 Speed: 25 MPH DIR: N Veh Mnvr/Ped Actn: 1				311 10	Inne	post		Duto	1	coldo		,,,		amage			- 1 -	1 -				1 -		1	TOPI
Unit 2 : 2 Alchl/Drgs: 0 Speed: 0 MPH Dir: E Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 3 : 1 Alchl/Drgs: 0 Speed: 50 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: 10 101833733 0.000 09/16/2006 REAR END, SLOW OR S 6000 0 0 0 0 1 1 1 1 1 0 0 15:80 STOP Unit 1 : 2 Alchl/Drgs: 1 Speed: 45 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 45 MPH Dir: E Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 1 : 1 Alchl/Drgs: 0 Speed: 10 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 10 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 10 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 10 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2 : 2 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 3 : 4 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4 : 1 Alchl/Drgs: 1 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4 : 1 Alchl/Drgs: 1 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 25 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 1 Alchl/Drgs: 0 Speed: 25 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 2 Alchl/Drgs: 0 Speed: 25 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2 : 2 Alchl/Drgs: 0 Speed: 25 MPH Dir: W	9	10	16	84350	0.0	000				END,	SLOW	OR	\$	4000	(5	0 0	0	1		. 1	Į Į	1 0	3	1
Unit 3 : 1 Alchl/Drgs: 0 Speed: 50 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: 10 101833733	Unit		1	: 1	Alc	ch1/D	rgs:	0	Speed	e (MPH	Dir	E		Veh	Mnv	r/Pec	i Acti	n:	1	(Obj	Strk	:	
10 101833733 0.000 09/16/2006 REAR END, SLOW OR \$ 6000 0 0 0 1 1 1 1 0 0 15:50 STOP Unit 1:2 Alchl/Drgs: 1 Speed: 45 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH Dir: E Veh Mnvr/Ped Actn: 1 Obj Strk: 11 101862927 0.000 12/10/2006 REAR END, SLOW OR \$ 450 0 0 0 2 1 1 1 3 11 15:31 STOP Unit 1:1 Alchl/Drgs: 0 Speed: 10 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH Dir: E Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 3:4 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4:1 Alchl/Drgs: 1 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 4:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:2 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk:	Unit		2	: 2	Alc	ch1/D	rgs:	0	Speed	: (0 MPH	Dir	Е		Veh	Mnv	r/Pec	i Acti	n;	1	(Obj	Strk	:	
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Unit 4:1 Alchl/Drgs: 1 Speed: 30 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: 13 101664711 0.002 01/26/2006 RAN OFF ROAD - RIGHT \$ 150 0 0 0 0 1 4 1 1 1 20:30 Unit 1:1 Alchl/Drgs: 0 Speed: 5 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 16 Obj Strk: 14 102030704 0.002 05/04/2007 REAR END, SLOW OR \$ 2300 0 0 0 2 2 1 3 5 0 16:22 STOP Unit 1:4 Alchl/Drgs: 0 Speed: 10 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: 15 101938471 0.007 01/15/2007 REAR END, TURN \$ 6000 0 0 0 1 1 1 1 5 0 13:41 Unit 1:2 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:1 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 1 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 1:5 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 8 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 8 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 8 Obj Strk: Unit 2:2 Alchl/Drgs: 0 Speed: 25 MPH Dir: N Veh Mnvr/Ped Actn: 8 Obj Strk:	Unit		2	: 2	Alc	ch1/D	rgs:	0	Speed	. (MPH (Dir:	W		Veh	Mnv	r/Pec	l Acti	n:	1	(Obj	Strk	\$	
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25	101723109	1.010 04/	26/2006 16:50	ANGLE				\$	5000		0	0 0	3					5 0		1
Unit	1:1	Alchl/Drgs:	0.	Speed:	10	MPH	Dir:	E		Veh	Mnv	r/Ped	Actr	ı:	4	c	Ъj	Strk:		
Unit	2 : 1	Alchl/Drgs:	0	Speed:	40	MPH	Dir:	s		Veh	Mnv	r/Ped	Actr	i:	4	(bj	Strk:		
26	101822963	1,010 09/		LEFT ROADW		SAME		\$	6125	(0	0 0	0	1	5	1		1 0	13	1
Unit	1 ; 5	Alchl/Drgs:	0	Speed:	15	MPH	Dir:	ŝ		Veh	Mnv	r/Ped	Actr	i:	8	c	bj	Strk:		
		Alchl/Drgs:		Decree Comments																

11/15/2007 -3-

Acc									9	Total			Inju	ries		C	ond	ition	F	Road	Trfc	Ct
No	Crash ID	Milepost		Date	Ace	ciden	t Typ	е				_	A	_	С	_			_	h Ci	-	_
27	101292469	1.029		2/2005 7:50								0	0	0	2	1				0		
Unit	1:10	Alch1/D	rgs:	0	Speed:	45	MPH	Dir:	5		Veh	Mr	nvr/	Ped	Acti	1:	4		bi	Strk	3	
	2 : 1	Alch1/D	rgs:	0	Speed:	45	MPH	Dir:	S		Veh	Mr	nvr/	Ped	Acti	1:	1	(bj	Strk	£	
	101423638	1.031	07/1		FIXED															0		
Unit	1 : 4	Alch1/D	rgs:	1	Speed:	55	MPH	Dir:	S		Veh	Mr	nvr/	Ped	Acti	n:	4	C	bj	Strk:	60	
29	101803104	1.300			LEFT I		SAME		ş	3500	-	0	0	0	0	1	- 1	. 2	- 3	0		
Unit	1:1	Alch1/D	rgs:	0	Speed:	0	MPH	Dir:	S		Veh	Mr	nvr/	Ped	Acti	n:	2	C	bj	Strk:	85	
Unit	2:1	Alchl/D											nvr/	Ped	Acti	1:	4	C	bj	Strk		
30	101934964		01/0										0	0	0	1		1		0	13	1
	1:5													Ped	Acti	1 :	4	(bj	Strk	17	
	101579440	1.376	10/0											0	0	2		. 3	1	. 0	6	2
Unit	1 : 4	Alch1/D	rgs:	0	Speed:	352	MPH	Dir:	S		Veh	Mr	nvr/	Ped	Acti	1:	4	(bj	Strk	ķ.	
Unit	2:4	Alch1/D	rgs:	0	Speed:	35	MPH	Dir:	S		Veh	Mr	nvr/	Ped	Acti	1:	11	(bj	Strk:		
32	101760961	1.380		8/2006 1:52	RAN OF	F RO	AD -	LEFT	\$	5000		0	0	1	0	1	-1	. 1	4	0	6	2
Unit	1:4				Speed:			Dir:	s		Veh	Mr	nvr/	Ped	Acti	1:	4	C	bj	Strk:	33	
33	101882195		11/0						\$	500	(0	0	0	0	1	1	. 1	1	. 0	0	
	1:5																		7.			
	101824167	1.900	09/0																			
	1:1														Acti	1:	4	C	bj	Strk:	33	
	101825614		09/0												0	2		. 2	1	. 0	13	1
	1 : 11																					
	101315039		10/2																			
Unit	1:1																					
37	102057635		06/0																			
Unit	1:2	Alchl/D:	rgs:	0	Speed:	40	MPH	Dir:	N		Veh	Mr	ure/	Ded	Acti		Δ	c	b4	Strk:	58	

11/15/2007 -4-

Acc									1	Total			Inju	ries	<u></u>	C	ond	lition		Road	Trfe	c Ctl
No	Crash ID	Milepost	D	ate	A	ccide	nt Typ	е	D	amage	٠Г	F	A	В	С	R	Ti	LV	V (h Ci	Dv	Op
38	101562465	2.250	09/1	-	ANGLE					4650	-	0	0	0	1	1	_		_	3 0	3	
Unit	1 : 11	Alch1/D			Speed:	4.5	MPH	Dir:	W		Veh	Mn	vr/	Ped	Actr	1:	4		Obi	Strk	0	
Unit	2 : 4	Alch1/D	rgs:																			
												_				-						
39	101884998	2.250		2/2006):54	LEFT ROADW		SAME		\$	16000		0	0	2	0	2	1	1. 2		3 0	3	1
Unit	1:1	Alch1/D	rgs:	0	Speed:	1.5	MPH	Dir:	N		Veh	Mn	vr/	Ped	Actr	1 :	8		Obj	Strk	8	
Unit	2 ; 1	Alch1/D						Dir:	S		Veh	Mn	VI/	Ped	Actr	1:	4		Obj	Strk		
40	101897502		11/2		REAR STOP			OR	ş	1000	_	0	0	1	0	1	ा । ्ह	5 1		3 0		
Unit	1 : 32	Alch1/D	rgs:	7	Speed:	35	MPH	Dir:	N		Veh	Mn	vr/	Ped	Actr	1:	4		Obj	Strk		
Unit	2 : 4																					
																-						
41	101246622	2.300		7/2004 7:45	REAR	END,	SLOW	OR	\$	5500		0	0	0	0	4		5 1		3 0	13	1
Unit	1:1	Alch1/D	2100		Speed:		MPH	Dir:	N				anci.		Actr				Obj	Strk	9	
	2:1	Alch1/D						Dir:			Veh	Mn	vr/	Ped	Actn	1:	4		Obj	Strk:		
Unit	3 : 4	Alch1/D	rgs:	0	Speed:	10	MPH	Dir:	N		Veh	Mn	vr/	Ped	Actn	1.1	4		Obj	Strk		
42	101291838	2.457		4/2004 1:54	FIXED	OBJE	CT		5	4000	- 31	0	0	0	0	1		5 1	1000	1 0	13	1
Unit	1:4	Alchl/D	rgs:	7	Speed:	45	MPH	Dir:	S		Veh	Mn	VI/	Ped	Actn	:	4		Obj	Strk	58	
43	101294159	2.550		7/2004 :48	REAR STOP	END,	SLOW	OR	\$	1000	(0	0	0	0	2	1	. 2		2 0	13	1
Unit	1:12	Alch1/D	rgs:	0	Speed:	0	MPH	Dir:	S		Veh	Mn	vr/	Ped	Actn	1:	1		ОЪј	Strk:		
Unit	2:1	Alch1/D						Dir:	S		Veh	Mn	vr/	Ped	Actn	12	4		Obj	Strk:		
44	101300583	2.550	10/0	4/2004					\$	1200	- (0	0	0	0	1		5		1 0		
Unit	1:1	Alchl/D																				
45	101726390		05/0																			
Unit	1 : 4	Alch1/D	rgs:	0	Speed:	4.5	MPH	Dir:	N		Veh	Mn	vr/	Ped	Actn	i.	4		Obj	Strk:		
Unit	2 : 1																					
46	101346007	2.640		5/2004																		
Unit	1 : 4										Veh	Mn	vr/	Ped	Actn	a .	4		Obj	Strk:	17	
47	101303128	2.650		7/2004						800	()	0	0	0	1	1	1		3 0	13	1
Unit	1:1	Alch1/D	rgs:	0	Speed:	0	MPH	Dir:	s		Veh	Mn	vr/	Ped	Actn	:	4		Obj	Strk:	18	
									_		_					_						

11/15/2007 -5-

Acc									Total			lnju	ries		C	one	lition		Road	Trf	Ctl
No	Crash ID	Milepost	Date	A	cciden	t Tvr	oe .		amage	Ē		_	В	_	_			_	h Ci		_
48	101287116		09/18/2004			,	-		1000		0	0	1	1	2	_	1 2	_	1 0	_	
Unit	1 : 20	Alchl/Dro	gs: 0	Speed:	10	мрн	Dir	Tall		Veh	Mn	we /	/ Dad	Acti		A	ž,	Obá	Strk	ē.	
	2:1		gs: 0																		
																<u>.</u>					
49	101836203	2.788	09/20/2006 07:30	REAR STOP	END,	SLOW	OR	ş	3000		0	0	0	0	1		1 1		1 0	13	1
Unit	1:1	Alch1/Dr	gs: 0	Speed:	45	MPH	Dir:	s		Veh	Mn	vr/	Ped	Actr	1:	4		Obj	Strk	8	
Unit	2 : 1	Alchl/Dr	gs: O	Speed:	45	MPH	Dir:	Ś		Veh	Mn	vr/	Ped	Actr	1:	1	9	Obj	Strk		
50	101764202		06/18/2006					\$	1000		 o	0	0	0	1	-	5 1		0		
Unit	1:1	Alch1/Dro						s		Veh	Mn	vr/	Ped	Acti	1:	4		Obj	Strk:	: 17	
51	101225726		07/02/2004 11:42					\$	2580	_	0	0	0	0	1	-	1 1		5 0	0	
		Alchl/Dro	gs: O											Acti	1:	4		Obj	Strk:	60	
	101834735		09/18/2006 02:56											0	1		5 1		5 0	13	1
Unit	1:1	Alchl/Dro	gs: 7	Speed:	55	МРН	Dir:	s		Veh	Mn	vr/	Ped	Actr	1:	4		Obj	Strk:	58	E
53	101399224	3.138	01/30/2005 11:21	REAR	END, S	SLOW	OR	\$	350	18	0	0	0	0	1		. 2		1 0	3	1
Unit	1:4	Alchl/Dro	gs: O	Speed:	45	MPH	Dir:	5		Veh	Mn	vr/	Ped	Actr	1:	11		Obj	Strk:		
Unit	2:1 	Alchl/Dro	js: 0 					s		Veh	Mn	vr/	Ped	Actr	ı: 	1		Obj	Strk:	ĺ	
54	101699081	3.138 (REAR STOP	END, 3	SLOW	OR	ş	125		ū	0	Q	0	1		. 1		1 0	3	1
Unit	1:1	Alch1/Dro	js: O	Speed:	0	MPH	Dir:	S		Veh	Mn	vr/	Ped	Actr	1:	1	(Obj	Strk:		
Unit	2:2		js: O	H. Geogeria															Strk:		
55		3.140		SIDES	WIPE,																
Unit	1:1	Alch1/Dro	js: O	Speed:	0	MPH	Dir:	N	q	Veh	Mn	vr/	Ped	Actr		7		Obj	Strk:		
Unit	2 : 1	Alch1/Dro	js: O	Speed:	45	MPH	Dir:	W		Veh	Mn	vr/	Ped	Actr	1;	4		Obj	Strk:		
Unit	3:5	Alchl/Dro	js: O	Speed:														Water			
56	101301408	3.140		LEFT DIFFE	TURN,				2200												
Unit	1:7	Alchl/Drg	js: O	Speed:	20	MPH	Dir:	E	9 8	Veh	Mn	vr/	Ped	Actr	iii	8		Obj	Strk:		
		Alch1/Dro																5.00			
		3.140 (RIGHT	TURN,									0	1	- :	. 2	-	2 0	3	1
Unit	1:1	Alchl/Drg						S		Veh	Mn	vr/	Ped	Actr		7	(obj	Strk:		
	2:1																				

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Acc									T					Total	Т	Ir	njur	ies		Co	ond	ition		Roa	id	Trfc	Ctl
No	С	ras	h ID	Mi	lepos	t	Da	ite	A	ccide	nt Typ	e	D	amage		F	A	В	С	R	1	. V	/ C	h	Ci	Dv	Op
58	101	42	0116	3	.140	0:	2/25 18:		LEFT ROAD		SAME		\$	5500	_	0	0	3	0	1		i 1		3	0	3	1
Unit		1	: 1	A	lchl	/Drgs	s : ()	Speed:	30) MPH	Dir:	Ε		Veh	Mny	r/E	ed	Actr	1:	8	9	Obj	St	rk:		
Unit		2	: 1	λ	lchl,	/Drg:	s: ()	Speed	40	MPH (Dir:	M		Veh	Mny	/r/E	ed	Actr	1:	4	1	Obj	st	rk:		
59	101	48	0829	3	.140		5/20		REAR STOP	END,	SLOW	OR	\$	4350		0	0	0	0	2	2	2		2	0	3	1
Unit	8	1	1	A	lchl,	/Drg:	s: ()	Speed:	40	MPH	Dir:	M		Veh	Mny	r/E	ed	Actr	1;	4	3	Obj	St	rk:		
Unit		2	: 1	A	lchl,	-100)				Dir	M		Veh	Mnv	rr/E	ed	Actr	1:	4		Obj	St	rk:		
60	101	65	- 2686	3	.140	0.		/2006	LEFT DIFFE	TURN,			ş	7000		0	0	1	1	1		1		1	0	3	1
Unit		1	: 1	A	lchl	/Drgs	s: 0)	Speed:	30	MPH	Dir:	\$		Veh	Mny	/r/E	ed	Actr	1:	8	9	Obj	St	rk:		
Unit		2	1	A	lchl/	/Drg:	s: 0)	Speed	4.5	MPH	Dir	M		Veh	Mnv	r/E	ed	Actr	1:	4	9	ОЪј	St	rk:		
61	101	70	2751	3	.140	0			LEFT DIFFE				\$	4000		0	0	0	0	1	1	1	1 8	1	0	3	1
Unit		1	1	A	lch1/	/Drgs	s: 0)	Speed:	40	MPH	Dir:	N		Veh	Mny	rr/E	ed	Actr	ı;	8	-	Obj	St	rk:		
Unit		2	4	A	lchl	/Drgs	s: 0	ì	Speed:	40	MPH	Dir:	E		Veh	Mnv	rr/P	ed	Actr	1;	4	9	Obj	St	rk:	33	
62	101	76	7338	3	.140	00	5/22 17:		ANGLE				s	1600		0	0	0	0	1	1	1		1	0	3	1
Unit	Š.	1 :	1	A	lch1/	Drg:	s: 0)	Speed:	20	MPH	Dir:	S		Veh	Mny	r/E	ed	Actr	1;	4	9	Obj	St	rk:		
Unit		2 :	1,	A	lch1/	/Drgs	s: (ĺ	Speed:	1.5	MPH	Dir:	E		Veh	Mny	rr/F	ed	Actr	1:	4	1	Obj	St	rk:		
63	101	85	8129	3	.140	1(0/16 05:		OTHER		-COLLI	sion	5	1000		0	0	0	0	1	5	2	7 S	1	0	3	1
Unit	8	1 :	1	A	lch1/	Drgs	s: 0	,	Speed:	10	MPH	Dir:	SI	2	Veh	Mns	rr/P	ed	Actr	12	8	1	0b1	St	rk:		

Legend for

Acc No - Accident Number

Report Details: Injuries: F - Fatal, A - Class A, B - Class B, C - Class C

Condition: R - Road Surface, L - Ambient Light, W - Weather

Rd Ch - Road Character

Rd Ci - Roadway Contributing Circumstances

Trfc Ctl - Traffic Control: Dv - Device, Op - Operating

Alchl/Drgs - Alcohol Drugs Suspected

Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action

Obj Strk - Object Struck

11/15/2007 -7-

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	63	100,00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	23	36.51
Total Injury Crashes	23	36.51
Property Damage Only Crashes	40	63.49
Night Crashes	20	31.75
Wet Crashes	12	19.05
Alcohol/Drugs Involvement Crashes	6	9.52

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	63	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	9	14.29
Class C Crashes	14	22.22
Property Damage Only Crashes	40	63.49

Vehicle Exposure Statistics

Annual ADT = 6400

Total Length = 3.14 (Miles) 5.053 (Kilometers)

Total Vehicle Exposure = 22.01 (MVMT) 35.41 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Millio Vehicle Kilometers	
Total Crash Rate	286,30	177.90	
Fatal Crash Rate	0.00	0.00	
Non Fatal Crash Rate	104.52	64.95	
Night Crash Rate	90.89	56.48	
Wet Crash Rate	54.53	33.89	
EPDO Rate	1059.75	658.50	

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Miscellaneous Statistics

Severity Index = 3.70

EPDO Crash Index = 233.20

Estimated Property Damage Total = \$ 235085.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANGLE	7	11.11
ANIMAL	6	9.52
FIXED OBJECT	6	9.52
LEFT TURN, DIFFERENT ROADWAYS	4	6.35
LEFT TURN, SAME ROADWAY	6	9.52
MOVABLE OBJECT	1	1.59
OTHER NON-COLLISION	1	1.59
OVERTURN/ROLLOVER	1	1.59
RAN OFF ROAD - LEFT	1	1.59
RAN OFF ROAD - RIGHT	2	3.17
REAR END, SLOW OR STOP	22	34.92
REAR END, TURN	2	3.17
RIGHT TURN, DIFFERENT ROADWAYS	2	3,17
SIDESWIPE, OPPOSITE DIRECTION	1	1.59
SIDESWIPE, SAME DIRECTION	1	1.59

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	12	30,00
Class C Injuries	28	70.00
Total Non-Fatal Injuries	40	100.00
Total Injuries	40	100.00

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Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	6	9.52
Feb	6	9.52
Mar	3	4.76
Apr	3	4.76
May	4	6.35
Jun	5	7.94
Jul	2	3.17
Aug	6	9.52
Sep	13	20.63
Oct	8	12.70
Nov	5	7.94
Dec	2	3.17

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	12	19.05
Tue	6	9.52
Wed	5	7.94
Thu	11	17.46
Fri	12	19.05
Sat	6	9.52
Sun	11	17.46

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Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	1	1.59
0200-0259	3	4.76
0300-0359	0	0.00
0400-0459	2	3.17
0500-0559	2	3,17
0600-0659	3	4.76
0700-0759	6	9.52
0800-0859	1	1.59
0900-0959	4	6.35
1000-1059	1	1.59
1100-1159	4	6.35
1200-1259	o	0.00
1300-1359	3	4.76
1400-1459	3	4.76
1500-1559	6	9.52
1600-1659	2	3.17
1700-1759	6	9.52
1800-1859	4	6.35
1900-1959	4	6.35
2000-2059	3	4.76
2100-2159	2	3.17
2200-2259	2	3.17
2300-2359	1	1.59

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Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	30	9	0	3.9
Dark	18	1	1	20
Other	2	2	0	4
Total	50	12	1	63

Object Struck Summary

Object Type	Times Struck	Percent of Total
ANIMAL	6	35.29
DITCH	3	17.65
MAILBOX	3	17.65
MOVABLE OBJECT	1	5.88
OFFICIAL HIGHWAY SIGN NON-BREAKAWAY	1	5.88
TREE	3	17.65

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
MOTORCYCLE	1	0.87
PASSENGER CAR	69	60.00
PICKUP	12	10.43
SCHOOL BUS	1	0.87
SINGLE UNIT TRUCK (2-AXLE, 6-TIRE)	1	0.87
SINGLE UNIT TRUCK (3 OR MORE AXLES)	2	1.74
SPORT UTILITY	19	16.52
TRUCK/TRAILER	1	0.87
UNKNOWN	2	1.74
VAN	7	6.09

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Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2004	18	0	5	13
2005	14	0	6	8
2006	23	0	7	16
2007	8	0	5	3
Total	63	0	23	40

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2004	0	9
2005	0	9
2006	0	13
2007	O	9
Total	0	40

Miscellaneous Totals

Year	Pro	operty Damage	EPDO Index 55.00	
2004	\$	53310		
2005	\$	58475	58.40	
2006	\$	92800	74.80	
2007	\$	30500	45.00	
Total	ş	235085	233.20	

Type of Accident Totals

	Run Off Road &							
Year	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other	
2004	4	1	3	2	3	1	4	
2005	1	1	8	1	2	1	0	
2006	5	0	7	5	2	0	4	
2007	0	0	6	1	0	0	1	
Total	10	2	24	9	7	2	9	

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Strip Diagram

Features	Milepost Crash IDs
US 64 BUSINESS US 64	0.000 101262375 101262374 101291851 101294740
	101417503 101335653 101468068 101541281
	101684350 101833733 101862927 102061636
	101664711 102030704
	0.010 101938471
	0.020
	0,030
	0.040 101265584
	0.050
	0.060
	0.070
	0.080
	0.090
	0.100
	0.110
	0.120
SR 2590 SATTERWHITE	0.130
	0.140
	0.150
	0.160
SR 2576 DANIEL	0.170
	0.180
	0.190
	0.200
SR 2592 GREEN	0.210 101281666
	0.220
	0.230
	0.240
SR 2576 DANIEL	0.250
	0.260
	0.270
	0.280
	0.290
	0.300
	0.310
	0.320
SR 2593 WHITFIELD	0.330
	0.340
	0.350
	0.360
	0.370
	0.380

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	Strip Anai	ysis Report
Features	Milepost	Crash IDs
	0.390	
	0.400	
	0.410	
	0.420	
	0.430	101544363
	0.440	
	0.450	
	0.460	
	0.470	
	0.480	
	0.490	
	0.500	
	0.510	
	0.520	
	0.530	
	0.540	
	0.550	
NEEDWILL	0.560	
	0.570	
	0,580	
	0.590	
	0.600	
	0.610	
	0.620	
	0.630	
	0.640	
	0.650	
	0.660	
	0.670	
	0.680	
	0.690	
	0.700	
	0,710	102066964
	0.720	
	0.730	
	0.740	
	0.750	
SR 4188 DIANE	0,760	
	0.770	
	0.780	
	0.790	
	0.800	
SR 2619 LINWOOD	0.810	101945975
	0.820	
	0.830	
	0.840	

11/15/2007 -15-

	Strip Analysis Report	
Features	Milepost Crash IDs	
	0.850	
	0.860	
	0.870	
	0.880	
	0.890	
	0.900	
	0.910	
SR 2620 EVELYN	0.920	
	0.930	
	0.940	
	0.950	
	0.960	
	0.970	
	0.980	
	0.990	
	1.000 101998502 101868834	
SR 2621 SR 2659 MERLIN	1.010 101322587 101452544 101723109 101	.822963
	1.020	
	1.030 101292469 101423638	
	1.040	
	1.050	
	1.060	
	1.070	
	1.080	
	1.090	
SR 2619 LINWOOD	1.100	
	1.110	
	1.120	
	1.130	
	1.140	
	1.150	
	1.160	
	1.170	
	1.180	
	1.190	
PRINCETON PARK	1.200	
	1,210	
	1.220	
	1.230	
	1.240	
	1.250	
	1.260	
	1.270	
	1.280	
	1.290	
PRINCETON TOWN	1.300 101803104 101934964	

11/15/2007 -16-

	Strip Anai	ysis Report
Features	Milepost	Crash IDs
-	1.310	
	1.320	
	1.330	
	1.340	
	1.350	
	1.360	
	1.370	
Railroad Crossing:465686Y	1.380	101579440 101760961
	1,390	
	1.400	
	1,410	
	1.420	
	1.430	
	1.440	
	1.450	
	1.460	
	1.470	
	1,480	
	1.490	
	1.500	
	1.510	
	1.520	
	1.530	
	1.540	
	1.550	
	1.560	
	1.570	
	1.580	
	1.590	
	1.600	
	1.610	
	1.620	
	1.630	
	1.640	
	1.650	
	1.660	
	1.670	
	1.680	
	1.690	
	1.700	
	1.710	
	1.720	
	1.730	
	1.740	
	1.750	
	1.760	

11/15/2007 -17-

	Strip Anal	ysis Report
Features	Milepost	Crash IDs
	1.770	
	1.780	
	1.790	
MINGO BLUFF	1.800	101882195
	1.810	
	1.820	
	1.830	
	1.840	
	1.850	
	1,860	
	1.870	
	1.880	
	1,890	
	1.900	101824167
	1.910	
	1.920	
	1.930	
	1.940	
	1.950	101825614
	1.960	
	1,970	
	1.980	
	1.990	
	2.000	
	2.010	
	2,020	
	2.030	
	2.040	
	2.050	
	2.060	
	2.070	
	2.080 2.090	
US 64 BYPASS		
US 64 BIFASS	2.100	
	2.110	
	2.120	
	2.130	
		101315039
	2.150	
	2.160	
	2.170	
	2.180	
	2,190	
	2.200	10000000
		102057635
	2,220	

11/15/2007 -18-

Milepost Crash IDs
2.230
2.240
2.250 101562465 101884998
2.260
2.270 101897502
2.280
2.290
2.300 101246622
2.310
2.320
2.330
2.340
2.350
2.370
2.380
2.390
2.400
2.410
2.420
2.430
2.440
2.450
2.470
2.480
2.490
2.500
2.510
2.520
2.530
2.540
2.550 101294159 101300583
2.560
2.570
2,580
2.590
2.600 101726390
2.610
2.620
2,630
2.640 101346007
2.650 101303128
2.660
2.670

11/15/2007 -19-

Strip Analysis Report		
Features	Milepost	Crash IDs
	2.680	
	2.690	
	2.700	
	2.710	
	2.720	
	2.730	
	2,740	
	2.750	
	2.760	
	2.770	
KEMP	2.780	101287116
	2.790	101836203
	2.800	
	2.810	
	2.820	
	2.830	
	2.840	
	2.850	
	2.860	
	2.870	
	2.880	
	2.890	
	2.900	
	2.910	
	2.920	
	2.930	101764202
	2.940	101225726
	2.950	
	2.960	
	2.970	
	2,980	
	2.990	
	3.000	
	3.010	
	3.020	
	3.030	
	3.040	101834735
	3.050	
	3.060	
	3.070	
	3.080	
	3.090	
	3.100	
	3.110	
	3.120	
	3.130	

11/15/2007 -20-

Features	Milepost	Crash IDs
SR 1007 POOLE	3.140	101399224 101699081 101270376 101301408
		101410129 101420116 101480829 101652686
		101702751 101767338 101858129

11/15/2007 -21-

Study Criteria

Study Name			Log No.	PH No.	TII	P No.	K/A Cf.	B/C Cf.	ADT	ADT Route
OLV200711091			200711091				76.8	8.4	6400	40002516
Request Date	Courier Ser	rvice	Phone No.	Ext.	Fax	No.				
11/01/2007			919-755-0583		919-832	2-8798				
Cour	nty		Munic	cipality						
Name	Code	Div.	Name		Code	Y-Line Ft	. Beg	in Date	End Date	e Years
WAKE	91	5	All and Rural			o	7/1	1/2004	6/30/200	7 3.00
Location Text				Reques	tor					

SR 2516 (Hodge Rd) from US 64 Bus to SR 1007 (Poole Rd)

Requestor

Matt Pickens, EI Wilbur Smith Associates Raleigh, NC 27601

Included Accidents	Old MP	New MP	Type
101265584	0	0.041	R
101291838		2.457	I
101300583		2.55	I
101303128	2.25	2.65	R.
101399224	3.14	3.138	R
101541281		0	I
101579440		1.376	I
101664711		0.002	I
101684350		0	I
101699081	0	3.138	R
101726390	0	2.6	R
101760961		1.38	I
101764202	0.83	2,93	R
101803104		1.3	I
101824167	0	1.9	R
101834735	3.14	3.04	R
101862927		0	I
101882195		1.8	I
101934964	0	1.3	R
101938471		0.007	I
101998502		1	I
102030704		0.002	I
102057635		2.212	I
102061636		0	r

11/15/2007 -22-

Excluded Accidents		
	101246005	
	101246029	
	101374764	
	101508747	
	101587844	
	101703641	
	101410172	
	101346879	
	101374779	
	101797512	
	101901676	

Fiche Roads

Name	Code		
SR 2516	40002516		
HODGE	50014128		

Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
SR 2516	40002516	0.000	3.140	3,140	5.053

11/15/2007 -23-

North Carolina Department of Transportation Traffic Engineering Accident Analysis System Fiche, Intersection, and Strip Reports Code Index

T - Type of Accident Codes		F - Road Feature Codes		
0 = UNKNOWN		0 = NO SPECIAL FEATURE		
1 = RAN OFF ROAD - RIGHT		1 = BRIDGE		
2 = RAN OFF ROAD - LEFT		2 = BRIDGE APPROACH		
3 = RAN OFF ROAD - STRAIGHT		3 = UNDERPASS		
4 = JACKKNIFE		4 = DRIVEWAY, PUBLIC		
5 = OVERTURN/ROLLOVER		5 = DRIVEWAY, PRIVATE		
13 = OTHER NON-COLLISION		6 = ALLEY INTERSECTION		
14 = PEDESTRIAN		7 = FOUR-WAY INTERSECTION		
15 = PEDALCYCLIST		8 = T-INTERSECTION		
16 = RR TRAIN, ENGINE		9 = Y-INTERSECTION		
17 = ANIMAL		10 = TRAFFIC CIRCLE/ROUNDABOUT		
18 = MOVABLE OBJECT		11 = FIVE-POINT, OR MORE		
19 = FIXED OBJECT		12 = RELATED TO INTERSECTION		
20 = PARKED MOTOR VEHICLE		13 = NON-INTERSECTION MEDIAN CROSSING		
21 = REAR END, SLOW OR STOP		14 = END OR BEGINNING - DIVIDED HIGHWAY		
22 = REAR END, TURN		15 = OFF RAMP ENTRY		
23 = LEFT TURN, SAME ROADWA	Y	16 = OFF RAMP PROPER		
24 = LEFT TURN, DIFFERENT ROA	ADWAYS	17 = OFF RAMP TERMINAL ON CROSSROAD		
25 = RIGHT TURN, SAME ROADW	AY	18 = MERGE LANE BETWEEN ON AND OFF RAMP		
26 = RIGHT TURN, DIFFERENT RO	DADWAYS	19 = ON RAMP ENTRY		
27 = HEAD ON		20 = ON RAMP PROPER		
28 = SIDESWIPE, SAME DIRECTIO	ON	21 = ON RAMP TERMINAL ON CROSSROAD		
29 = SIDESWIPE, OPPOSITE DIRE	CTION	22 = RAILROAD CROSSING		
30 = ANGLE		23 = TUNNEL		
31 = BACKING UP		24 = SHARED-USE PATHS OR TRAILS		
32 = OTHER COLLISION WITH VE	HICLE	25 = OTHER		
R - Road Condition Codes	L - Light Condition Cod	es W - Weather Condition Codes		
1 DDV	4 DAVIDUIT	4 01545		

or - other occion with term	20-0111211	
R - Road Condition Codes	L - Light Condition Codes	W - Weather Condition Codes
1 = DRY	1 = DAYLIGHT	1 = CLEAR
2 = WET	2 = DUSK	2 = CLOUDY
3 = WATER (STANDING, MOVING)	3 = DAWN	3 = RAIN
4 = ICE	4 = DARK - LIGHTED ROADWAY	4 = SNOW
5 = SNOW	5 = DARK - ROADWAY NOT LIGHTED	5 = FOG, SMOG, SMOKE
6 = SLUSH	6 = DARK - UNKNOWN LIGHTING	6 = SLEET, HAIL, FREEZING RAIN/DRIZZLE
7 = SAND, MUD, DIRT, GRAVEL	7 = OTHER	7 = SEVERE CROSSWINDS
8 = FUEL, OIL	8 = UNKNOWN	8 = BLOWING SAND, DIRT, SNOW
9 = OTHER		9 = OTHER
10 = UNKNOWN		
	Ch - Road Character	Op - Traffic Control Operating
S - Accident Severity Codes	1 = STRAIGHT, LEVEL	1 = YES
K = FATAL	2 = STRAIGHT, HILLCREST	2 = NO
A = A-LEVEL INJURY	3 = STRAIGHT, GRADE	3 = UNKNOWN
B = B-LEVEL INJURY	4 = STRAIGHT, BOTTOM (SAG)	
C = C-LEVEL INJURY	5 = CURVE, LEVEL	
O = PROPERTY DAMAGE ONLY	6 = CURVE, HILLCREST	
	7 = CURVE, GRADE	

10/19/2005 Page 1 of 3

8 = CURVE, BOTTOM (SAG)

9 = OTHER

North Carolina Department of Transportation Traffic Engineering Accident Analysis System Fiche, Intersection, and Strip Reports Code Index

Veh Mnvr - Vehi	cle Maneuver C	odes
-----------------	----------------	------

1 = STOPPED IN TRAVEL LANE

2 = PARKED OUT OF TRAVEL LANES 3 = PARKED IN TRAVEL LANES

4 = GOING STRAIGHT AHEAD

4 - GUING STRAIGHT AREAD

5 = CHANGING LANES OR MERGING

6 = PASSING

7 = MAKING RIGHT TURN

8 = MAKING LEFT TURN

9 = MAKING U-TURN

10 = BACKING

11 = SLOWING OR STOPPING

12 = STARTING IN ROADWAY

13 = PARKING

14 = LEAVING PARKED POSITION

A AVOIDING OR JEST IN DO A

15 = AVOIDING OBJECT IN ROAD

Dv - Traffic Control Device

0 = NO CONTROL PRESENT

1 = STOP SIGN

2 = YIELD SIGN

3 = STOP AND GO SIGNAL

4 = FLASHING SIGNAL WITH STOP SIGN

5 = FLASHING SIGNAL WITHOUT STOP SIGN

6 = RR GATE AND FLASHER

7 = RR FLASHER

8 = RR CROSSBUCKS ONLY

9 = HUMAN CONTROL

10 = WARNING SIGN

11 = SCHOOL ZONE SIGNS

12 = FLASHING STOP AND GO SIGNAL

13 = DOUBLE YELLOW LINE, NO PASSING ZONE

14 = OTHER

Alchl/Drgs - Driver Alcohol/Drugs Suspected Status Codes

0 = NO

1 = YES - ALCOHOL, IMPAIRMENT SUSPECTED

2 = YES - ALCOHOL, NO IMPAIRMENT DETECTED

3 = YES - OTHER DRUGS, IMPAIRMENT SUSPECTED

4 = YES - OTHER DRUGS, NO IMPAIRMENT DETECTED

5 = YES - ALCOHOL AND OTHER DRUGS, IMPAIRMENT SUSPECTED

6 = YES - ALCOHOL AND OTHER DRUGS, NO IMPAIRMENT DETECTED

7 = UNKNOWN

Ped Actn - Pedestrian Action Codes

- 1 = ENTERING OR CROSSING SPECIFIED LOCATION
- 2 = WALKING, RIDING, RUNNING/JOGGING WITH TRAFFIC
- 3 = WALKING, RIDING, RUNNING/JOGGING AGAINST TRAFFIC
- 4 = WORKING
- 5 = PUSHING VEHICLE
- 6 = APPROACHING OR LEAVING VEHICLE
- 7 = PLAYING
- 8 = STANDING
- 9 = OTHER

Ci - Roadway Contributing Circumstances

- 0 = NONE (NO UNUSUAL CONDITIONS)
- 1 = ROAD SURFACE CONDITION
- 2 = DEBRIS
- 3 = RUT, HOLES, BUMPS
- 4 = WORK ZONE (CONSTRUCTION, MAINTENANCE,

UTILITY)

- 5 = WORN TRAVEL-POLISHED SURFACE
- 6 = OBSTRUCTION IN ROADWAY
- 7 = TRAFFIC CONTROL DEVICE INOPERATIVE, NOT

VISIBLE OR MISSING

8 = SHOULDERS LOW, SOFT OR HIGH

9 = NO SHOULDERS

10 = NON-HIGHWAY WORK

11 = OTHER

12 = UNKNOWN

North Carolina Department of Transportation Traffic Engineering Accident Analysis System Fiche, Intersection, and Strip Reports Code Index

Obj Strk - Object Struck Codes

14 = PEDESTRIAN

15 = PEDALCYCLIST

17 = ANIMAL

18 = MOVABLE OBJECT

20 = PARKED MOTOR VEHICLE

33 = TREE

34 = UTILITY POLE

35 = LUMINAIRE POLE NON-BREAKAWAY

36 = LUMINAIRE POLE BREAKAWAY

37 = OFFICIAL HIGHWAY SIGN NON-BREAKAWAY

38 = OFFICIAL HIGHWAY SIGN BREAKAWAY

39 = OVERHEAD SIGN SUPPORT

40 = COMMERCIAL SIGN

41 = GUARDRAIL END ON SHOULDER

42 = GUARDRAIL FACE ON SHOULDER

43 = GUARDRAIL END IN MEDIAN

44 = GUARDRAIL FACE IN MEDIAN

45 = SHOULDER BARRIER END

46 = SHOULDER BARRIER FACE

40 = GITOGEDETT BATTITIETT FAGE

47 = MEDIAN BARRIER END

48 = MEDIAN BARRIER FACE

49 = BRIDGE RAIL END

50 = BRIDGE RAIL FACE

51 = OVERHEAD PART UNDERPASS

52 = PIER ON SHOULDER OF UNDERPASS

53 = PIER IN MEDIAN OF UNDERPASS

54 = ABUTMENT OF UNDERPASS

55 = TRAFFIC ISLAND CURB OR MEDIAN

56 = CATCH BASIN OR CULVERT ON SHOULDER

57 = CATCH BASIN OR CULVERT ON MEDIAN

58 = DITCH

59 = EMBANKMENT

60 = MAILBOX

61 = FENCE OR FENCE POST

62 = CONTRUCTION BARRIER

63 = CRASH CUSHION

64 = OTHER FIXED OBJECT

Unit # - Vehicle Style Codes

1 = PASSENGER CAR

2 = PICKUP

3 = LIGHT TRUCK (MINI-VAN, PANEL)

4 = SPORT UTILITY

5 = VAN

6 = COMMERCIAL BUS

7 = SCHOOL BUS

8 = ACTIVITY BUS

9 = OTHER BUS

10 = SINGLE UNIT TRUCK (2-AXLE, 6-TIRE)

11 = SINGLE UNIT TRUCK (3 OR MORE AXLES)

12 = TRUCK/TRAILER

13 = TRUCK/TRACTOR

14 = TRACTOR/SEMI-TRAILER

15 = TRACTOR/DOULBES

16 = UNKNOWN HEAVY TRUCK

17 = TAXICAB

18 = FARM EQUIPMENT

19 = FARM TRACTOR

20 = MOTORCYCLE

21 = MOPED

22 = MOTOR SCOOTER OR MOTOR BIKE

23 = PEDALCYCLE

24 = PEDESTRIAN

25 = MOTOR HOME/RECREATIONAL VEHICLE

26 = OTHER

27 = ALL TERRAIN VEHICLE (ATV)

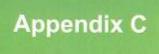
28 = FIRETRUCK

29 = EMS VEHICLE, AMBULANCE, RESCUE SQUAD

30 = MILITARY

31 = POLICE

32 = UNKNOWN



SIGNAL WARRANT SPREADSHEET

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME:

Hodge Road at Mingo Bluff Blvd

COUNT DATE:

10/31/07

Stop Sign Control INTERSECTION CONDITION:

Hodge Road Mingo Bluff Blvd MAJOR STREET: MINOR STREET:

OF APPROACH LANES: # OF APPROACH LANES:

ou ou

85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N); ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N):

z >

-	WARRANT 3												٨	*	٨					m	- HO NEEDED
	WARRANT 2					100						٨	٨	*	٨					4	4 LIBO MEEDED
	9	BOTH			>							*	٨	*	٨	٨	٨			7	090
arrant	CONDITION B	MINOR	99	٨	*	*	>				٨	>	٨	*	*	٨	>				NO B NEE
WARRANT 1, Combination Warrant	ö	MAJOR	504		^							>	>	*	>	٨	>	>			B HOLIBS OF BOTH COND. A AND COMD. B MEEDED
ANT 1, Con		BOTH			>	>		(ne	- 6			٨	٨	٨	٨		1/2			9	HCOND
WARR	CONDITION A	MINOR	112		>	>						>	٨	>	^						RS OF BO
	O	MAJOR	336		>	٨		17			*	*	*	٨	*	٨	٨	٨	٨		B HOLL
tion B	BOTH MET											٨	٨	٨	٨	٨	٨			9	9
WARRANT 1, Condition B		MINOR	70	¥	٨	>					80	٨	^	4	٨	٨	^				8 HOURS NEEDED
WARRAI		MAJOR	630									٨	٨	٨	,	>	*				8 HOL
y woo		MET			٨	*					.0	٨	٨	>	٨		0.7			9	c
WARRANT 1, Condition A		MINOR	140	200.00	٨	٨						*	٨	,	٨						8 HOURS NEEDED
WABBA		MAJOR	420	90000	٨	٨						Α.	٨	٨	Α.	λ	*	Α.		8	
	MINOR ST	HIGHEST	1	66	180	157	64	51	51	909	69	202	270	145	170	106	88	45	36	1,783	
	MAJOR ST	MAJOR ST BOTH APPROACHES		251	573	484	283	284	266	296	146	778	847	1,033	1,108	745	664	513	414	8,880	
		,	ES S	07:00 AM	08:00 AM	MA 00:00	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	04:00 PM	05:00 PM	MG 00:00	07:00 PM	08:00 PM	09:00 PM	10:00 PM		
			THRESHOLD VALUES	01	DT 1	01	823	10	70	01	07	0	0	2	OT .	10	01	OT I	OT 1		
			THRESHC	06:00 AM	07:00 AM	09:00 AM	09:00 AM	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	04:00 PM	05:00 PM	06:00 PM	07:00 PM	08:00 PM	M9 00:00		

WARRANT 1 -- Eight-Hour Vehicular Volume Warrant

SATISFIED

SATISFIED

NOT SATISFIED

NOT SATISFIED

NOT SATISFIED

Condition A: Minimum Vehicular Volume

Condition B : Interruption of Continuous Traffic

Combination: Combination of Condition A and Condition B

WARRANT 2 -- Four-Hour Vehicular Volume Warrant

